

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
7 April 2005 (07.04.2005)

PCT

(10) International Publication Number
WO 2005/030217 A1

(51) International Patent Classification⁷: **A61K 31/517**,
A01N 43/54, C07D 239/72, 487/00, 401/00, 403/00,
413/00, 417/00

(21) International Application Number:
PCT/US2004/030483

(22) International Filing Date:
17 September 2004 (17.09.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
60/505,139 23 September 2003 (23.09.2003) US

(71) Applicant (for all designated States except US): **MERCK
& CO., INC.** [US/US]; 126 East Lincoln Avenue, Rahway,
New Jersey 07065-0907 (US).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **TROTTER, B. Wes-
ley** [US/US]; 126 East Lincoln Avenue, Rahway, New Jer-
sey 07065-0907 (US). **ISAACS, Richard** [US/US]; 126
East Lincoln Avenue, Rahway, New Jersey 07065-0907
(US).

(74) Common Representative: **MERCK & CO., INC.**; 126
East Lincoln Avenue, Rahway, New Jersey 07065-0907
(US).

(81) Designated States (unless otherwise indicated, for every
kind of national protection available): AE, AG, AL, AM,
AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN,
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI,
GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE,
KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD,
MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG,
PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM,
TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM,
ZW.

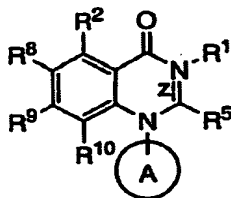
(84) Designated States (unless otherwise indicated, for every
kind of regional protection available): ARIPO (BW, GH,
GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM,
ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),
European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI,
FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI,
SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ,
GW, ML, MR, NE, SN, TD, TG).

Published:

- with international search report
- before the expiration of the time limit for amending the
claims and to be republished in the event of receipt of
amendments

For two-letter codes and other abbreviations, refer to the "Guid-
ance Notes on Codes and Abbreviations" appearing at the begin-
ning of each regular issue of the PCT Gazette.

(54) Title: **QUINAZOLINE POTASSIUM CHANNEL INHIBITORS**



(I)

(57) **Abstract:** The present invention relates to compounds hav-
ing the structure (I) useful as potassium channel inhibitors to
treat cardiac arrhythmias, and the like.